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November 6, for the discussion of observations made during the total solar eclipse of May 29 last. Sir Frank Dyson, the astronomer royal, opened the discussion, and was followed by Professor Eddington and other members of the eclipse expedition. Cablegrams to the daily papers report that the photographic plates show the deflection of the rays of light from the stars by the sun's gravitation that the Einstein theory of relativity requires. A similar attempt was made by the Crocker Expedition of the Lick Observatory in 1918, and the problem is described by Dr. W. W. Campbell, the director of the observatory, in *SCIENCE* for July 12, 1918. An article on relativity in physics by Professor Reinhard A. Wetzels, of the College of the City of New York, is printed in *SCIENCE* for October 3, 1918, and one by Professor William Marshall, of Purdue University, in *The Popular Science Monthly* for May, 1914. The article on the ether drift by Professor A. A. Michelson and Professor Edward W. Morley, which gave rise to the discussion, was printed in *The American Journal of Science* in 1887. Albert Einstein, then an employee in the patent office at Bern, first published his theory of relativity in the *Annalen der Physik* in 1905. Dr. Einstein later became professor in the Zurich Polytechnic School and was called to Berlin several years ago.

#### SCIENTIFIC NOTES AND NEWS

THE Nobel prize for physics for 1918 has been awarded to Professor Max Planck, of Berlin, and for 1919 to Professor Stark, of Greifswald. The prize for chemistry for 1918 has been awarded to Professor Fritz Haber, of Berlin.

THE National Academy of Sciences has voted to confer its Public Welfare medal on Mr. Herbert Hoover.

SURGEON-GENERAL WILLIAM C. BRAISTED, of the U. S. Navy Medical Corps, has been elected an honorary fellow of the Royal College of Surgeons of Edinburgh.

DR. M. C. TANQUARY, associate professor of entomology at the Kansas State Agricultural

College, has resigned to accept the position of state entomologist of Texas, and chief of the division of entomology of the Texas Agricultural College. His resignation takes effect on February 1.

G. B. RICHARDSON has been placed in direct charge of the oil and gas section of the U. S. Geological Survey.

DR. G. DALLAS HANNA, who for eight years has been an assistant in the United States Bureau of Fisheries, has been appointed curator of invertebrate paleontology in the California Academy of Sciences. Dr. Hanna has for seven seasons been engaged in scientific work on the Pribilof Islands, Alaska, having taken the census of the fur seal herd for five consecutive years. He brings to the museum of the academy his collection of mollusks which numbers about 100,000 specimens.

SIR HENRY ALEXANDER MIERS, F.R.S., vice-chancellor of the University of Manchester, has been appointed a member of the advisory council to the committee of the privy council for scientific and industrial research.

AT the annual meeting of the Royal College of Physicians of Ireland, held on October 18, Dr. James Craig, professor of practice of medicine in Trinity College, Dublin, was elected president.

V. K. TING, director of the Geological Survey of China, is travelling in the United States.

PROFESSOR LYNDY JONES, of the department of zoology, of Oberlin College, conducted a party of students of ecology on a trip to the Pacific coast during the summer. The entire journey was made in automobiles—four Ford cars, a Franklin sedan, and a trailer. The route followed the Trans-continental, the Union Pacific and Northeastern to Omaha, thence to Yellowstone Park, spending several days in the park, up the Columbia River through eastern Oregon to Portland, then to Moclips, Washington, where camp was made and the party explored the coast and the neighboring islands. Except for occasional hospitality of friends along the way, every night was spent out of doors, and meals were

prepared over camp fire. Study was made while traveling of the animals, birds and plants, the nature of the country and the character of the soil, and lectures were given each day. The party left Oberlin on June 20 and returned on August 27 all in good health and reporting a most successful and enjoyable trip. For next summer a different trip is planned, through Colorado and Estes Park to California and the Yosemite.

It is stated in *Nature* that the Swedish Academy of Science has reported favorably on a request by Professor J. G. Andersson, formerly director of the Swedish Geological Survey, for a government grant of 90,000 kroner towards scientific researches and collections in China, where Dr. Andersson is now geological adviser to the Chinese government. It is hoped that the Swedish Riksmuseum will thus receive rich collections in paleontology, prehistory and zoology, but, to comply with conditions laid down by Professors Andersson and Witman, the fossil vertebrates will go to Upsala.

DR. JAMES R. ANGELL, on leave of absence as head of the department of psychology and dean of the faculties of the University of Chicago, now chairman of the National Research Council, recently visited the Carnegie Institute of Technology, Pittsburgh, and conferred with several members of the faculty who are particularly interested in the progress of research. In the afternoon, Dr. Angell addressed the faculty and graduate students of the division of applied psychology.

At the meeting of the Section on Medical History of the College of Physicians of Philadelphia, held on November 15, Lieutenant Colonel Fielding H. Garrison, M. C., U. S. Army, Washington, D. C., and Dr. Edward C. Streeter, Boston, presented a paper on "Sculpture and Paintings as Modes of Anatomical Expression."

THE president, Professor James Ward, of Cambridge University, delivered the inaugural address before the Aristotelian Society on November 3 on the subject "In the beginning . . ." The congress which the society arranges annually will be held next year at

Oxford in September, and the French Philosophical Society will take part.

A COURSE of twelve Swiney lectures on "Geology and Mineral Resources of the British Possessions in Africa" will be given at the Imperial College of Science and Technology, London, by Dr. J. D. Falconer, on November 10 and later.

THE tablets in memory of Lord Lister, executed for University College by Professor Harvard Thomas, were unveiled on November 11, by Sir George Makins, president of the Royal College of Surgeons, and Sir J. J. Thomson, president of the Royal Society. The Duke of Bedford, president of the Lister Memorial Committee, presided.

DR. WILLIAM G. BISSELL, bacteriologist and sanitary expert, died on November 14, at the age of forty-nine years. He was director of the laboratories of the Buffalo Health Department for twenty-five years and past president of the New York State Sanitary Officers' Association. Since his graduation from the medical department of the University of Buffalo in 1892 he had practised there.

THE National Academy of Medicine and the Surgical Society of Rio de Janeiro is compiling a catalogue of all medical publications that have appeared in Brazil within the past hundred years. This catalogue will be distributed at the celebration of the Centenary of Independence which is to be held in 1920. A Congress of Medicine will be held at the same time in Rio de Janeiro under the direction of Professor Fernando Magalhaes, president of the Medical and Surgical Association.

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#### UNIVERSITY AND EDUCATIONAL NEWS

By the terms of the will of Dr. Henry K. Oliver, Harvard University receives funds for a department of hygiene.

THE French minister of public instruction has introduced in parliament a bill covering an appropriation of 12,126,000 francs for the benefit of the universities, to be used in the